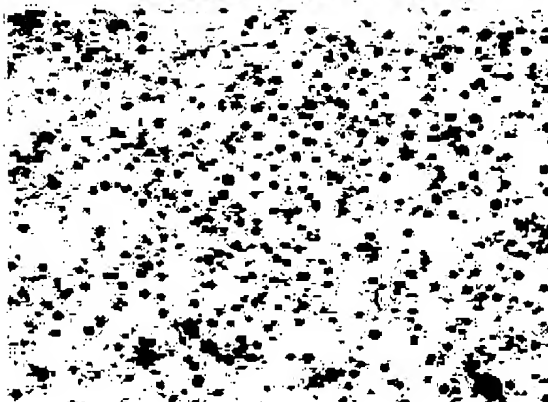


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FIG. 1A



FIG. 1B



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FIG. 2A

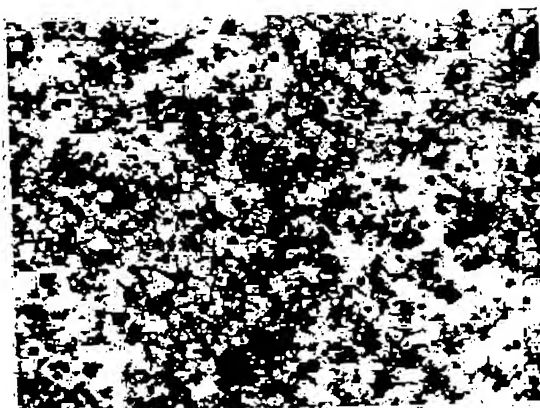
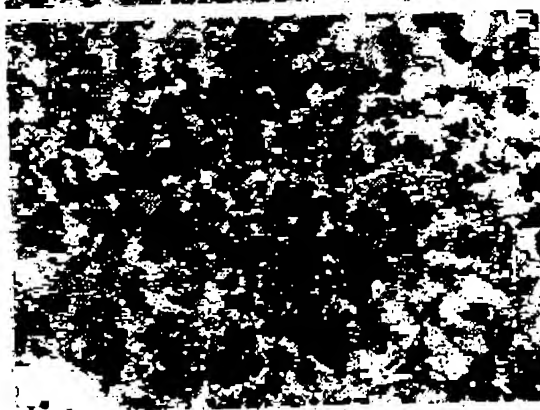


FIG. 2B



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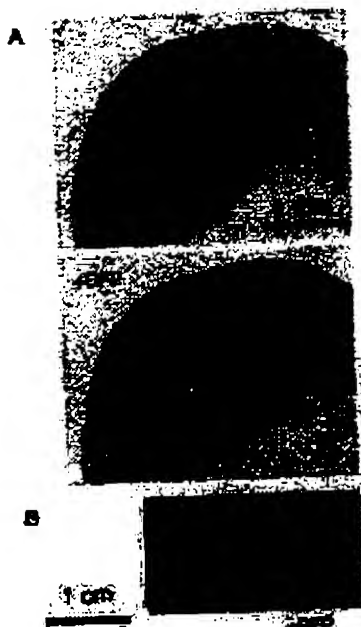


FIG. 3A

FIG. 3B

FIG. 3C

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FIG. 4A

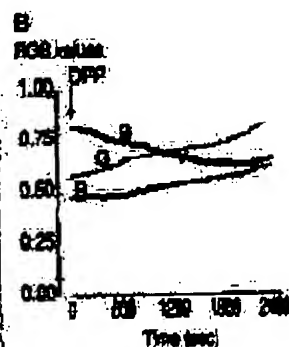
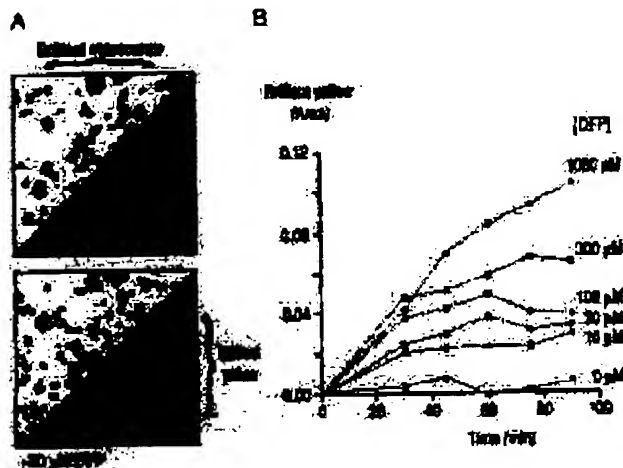


FIG. 4B



FIG. 4C

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FIG. 6A

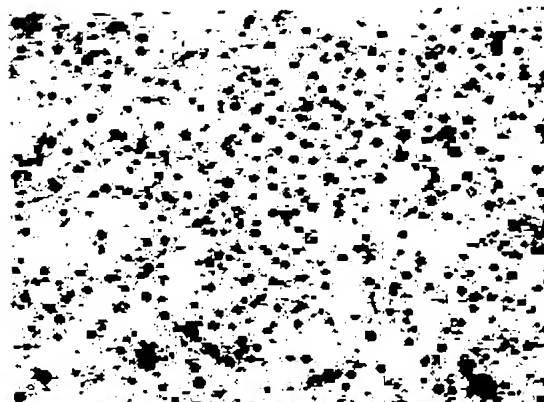


FIG. 6B

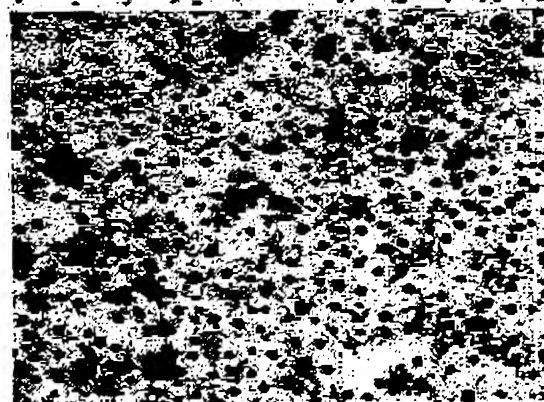
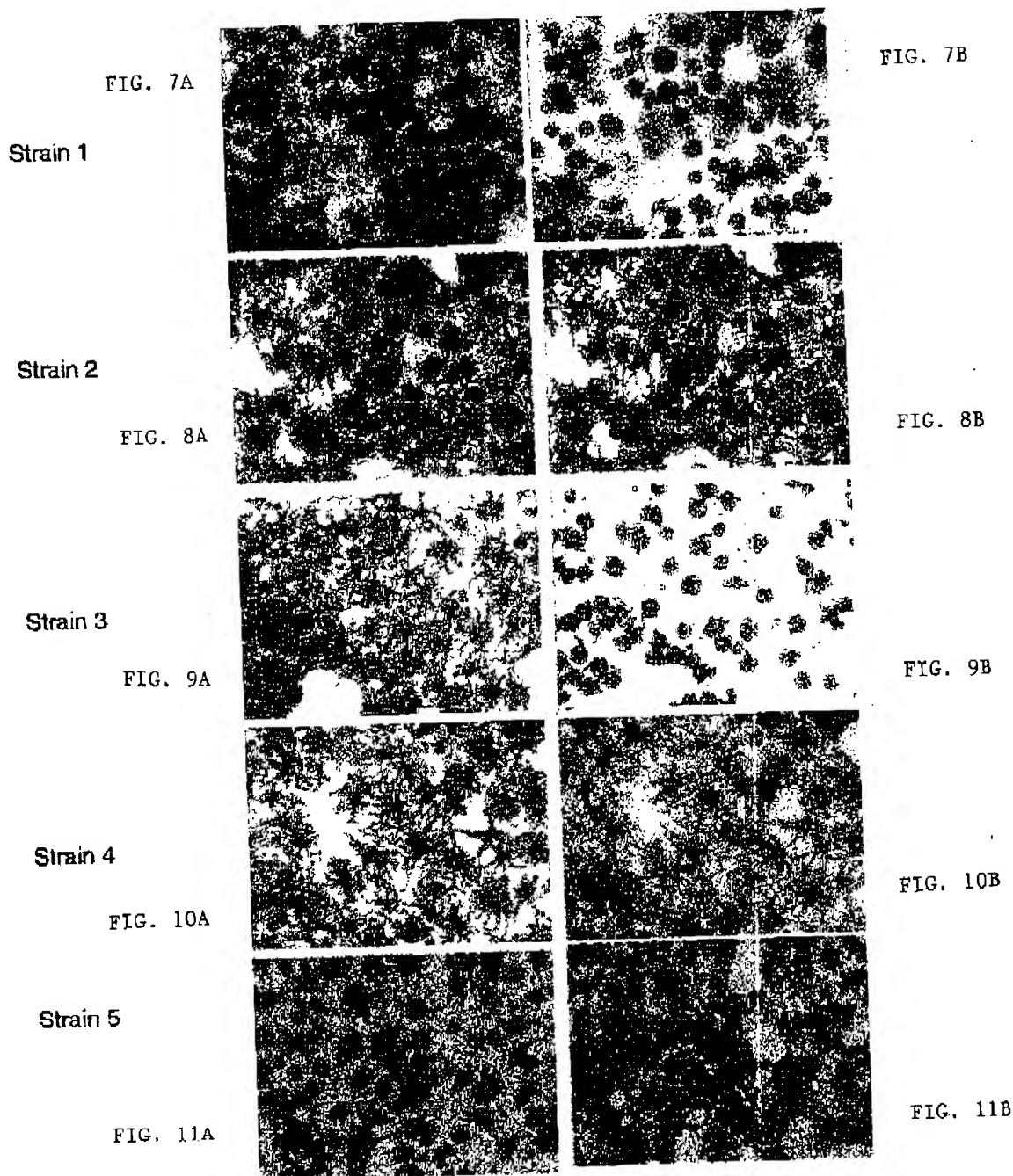


FIG. 6C



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Before adding bacteria After adding bacteria



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FIG. 12A

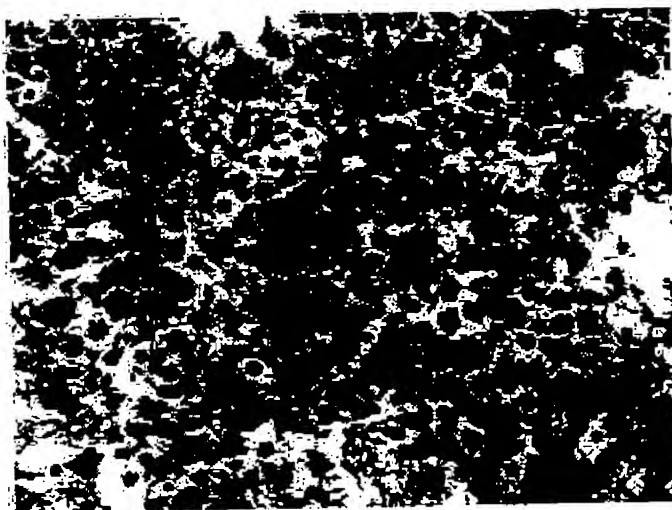
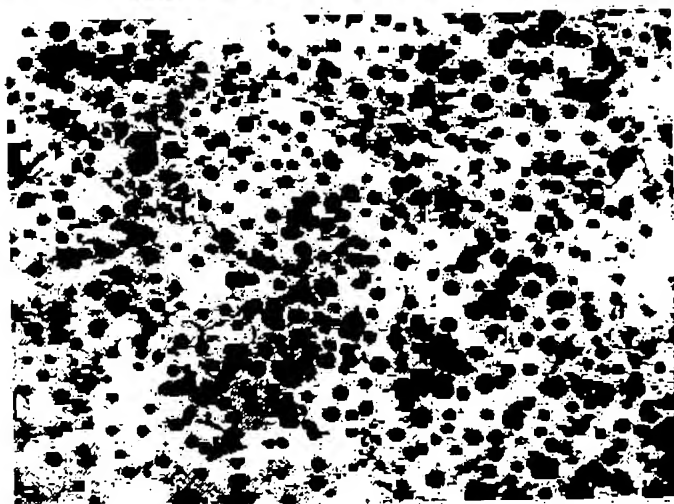




















FIG. 12B

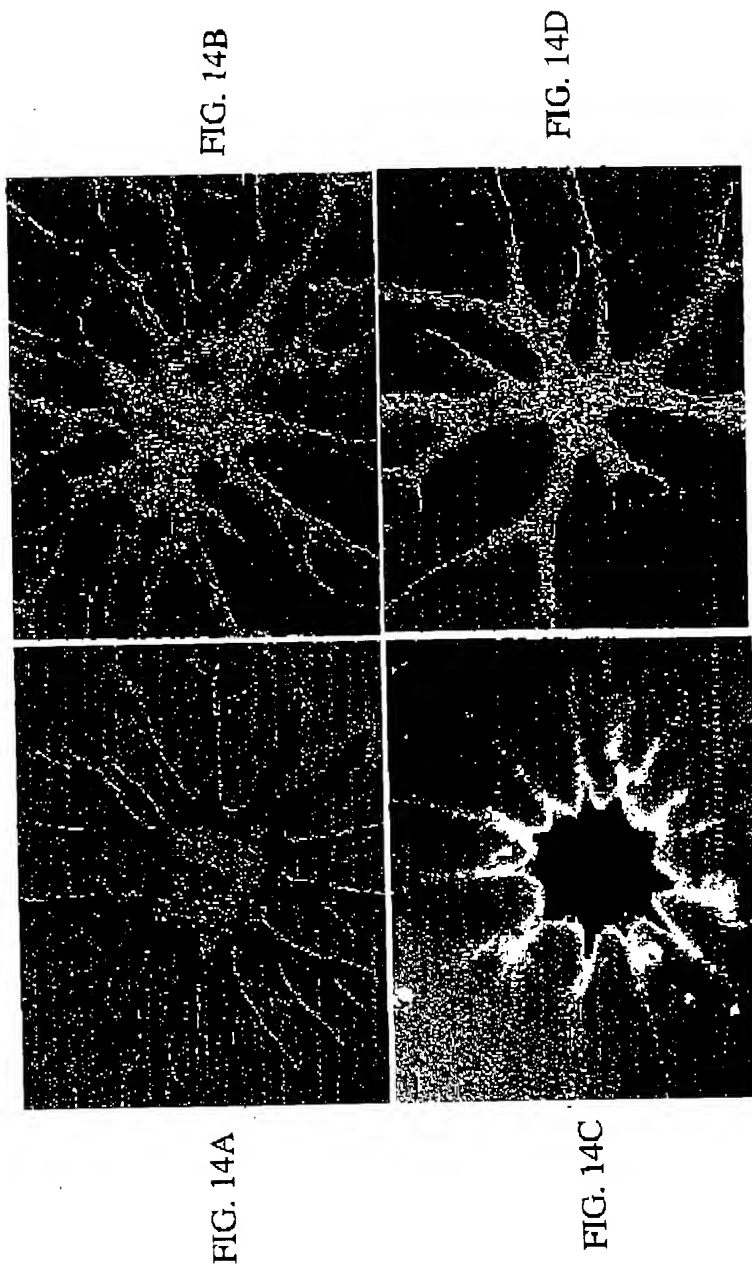


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FIG. 13

	Agent	Chemical Type	Effective dose	Direct Effects	Challenge A (azoxystrobin)	Challenge B (fenitrothion)
Control	None	-	-			
I	DFP Mipafos Parathion	phosphorofluoridic acid phosphorofluoridic acid phosphorothioate	ppm			
II	DFP EIN	phosphorofluoridic acid phosphorothioate	ppm			
III	Methidathion Dichlorvos	phosphorothioate phosphorothioate	ppm			
IV	Ticklenfos	phosphorothioate	ppm			
V	Chlorpyrifos Fenitrothion Methidathion Carbaryl Methomyl 2,5 Hexanedione Acrylamide	phosphorothioate phosphorothioate phosphorothioate carbamate carbamate diketone amide	ND			

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Chaplen et al.
Title: METHODS FOR DETECTING BIOACTIVE
COMPOUNDS
Application No. 10024,654
Filed: December 17, 2001
Attorney Mailer No. 245-61614

FIG. 15A

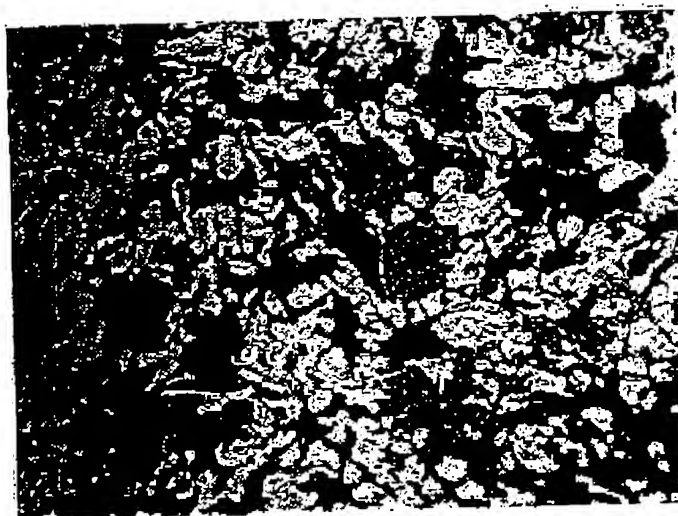
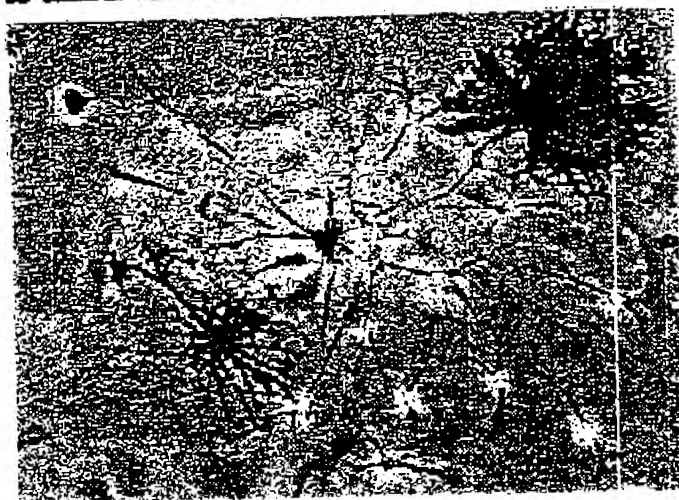


FIG. 15B



100 microns

FIG. 16A



FIG. 16B



FIG. 16C



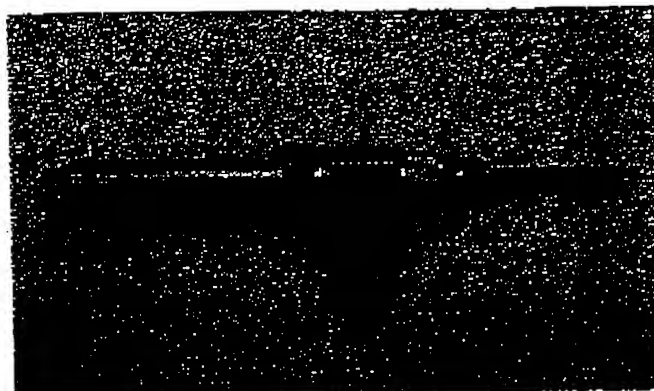
FIG. 17



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Hardware construction for the encapsulation of SOS sensor cells.

FIG. 18A



Extruder
hardware
(assembled)

FIG. 18B



FIG. 18C

Air-flow
adjustment
mechanism

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Before

After 10nM
Norepinephrine

FIG. 19A
(+) Ca²⁺

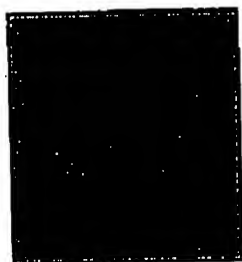


FIG. 20A
(-) Ca²⁺



FIG. 19B



FIG. 20B



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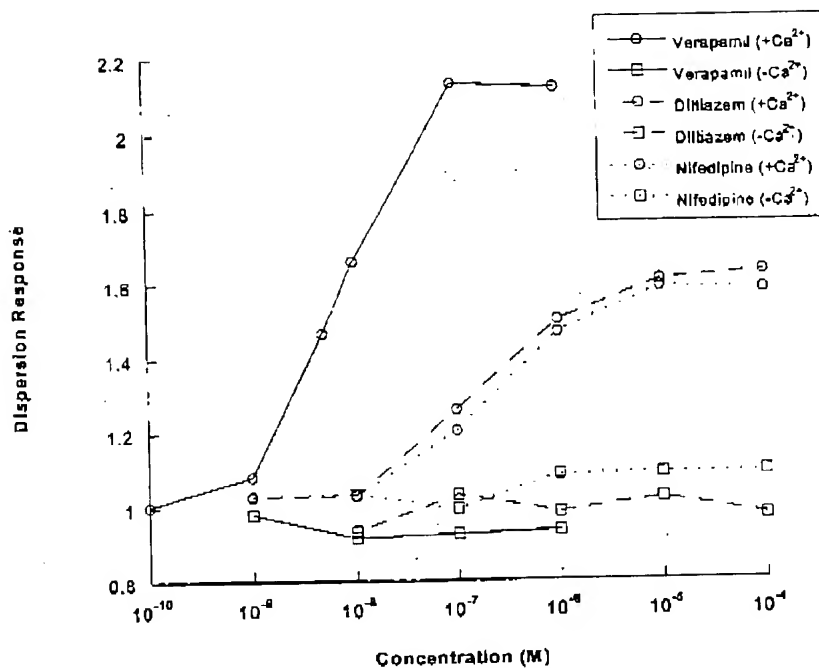


FIG. 21

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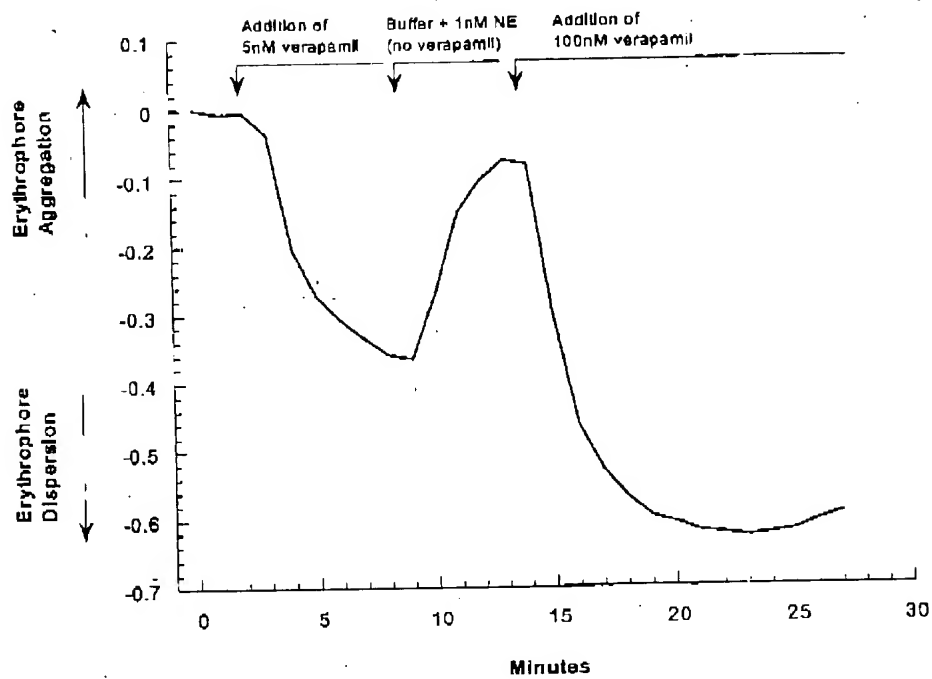


FIG. 22

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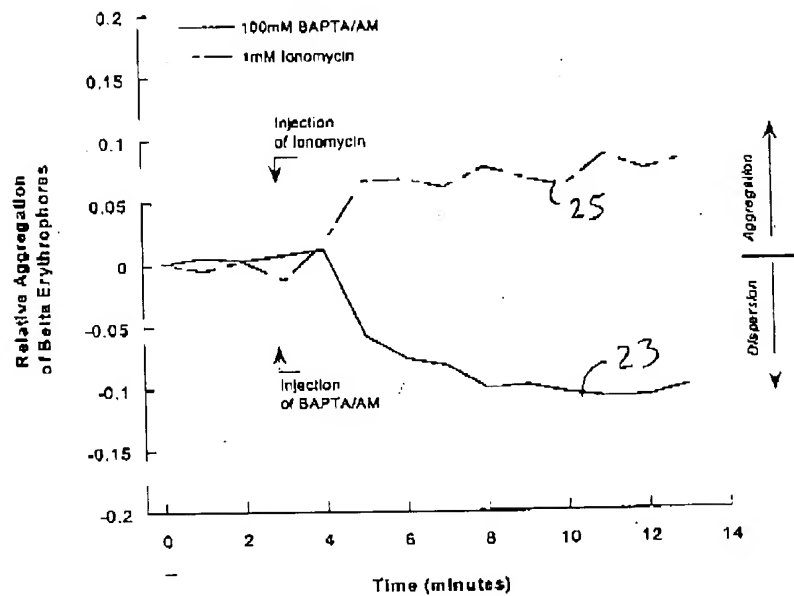


FIG. 23

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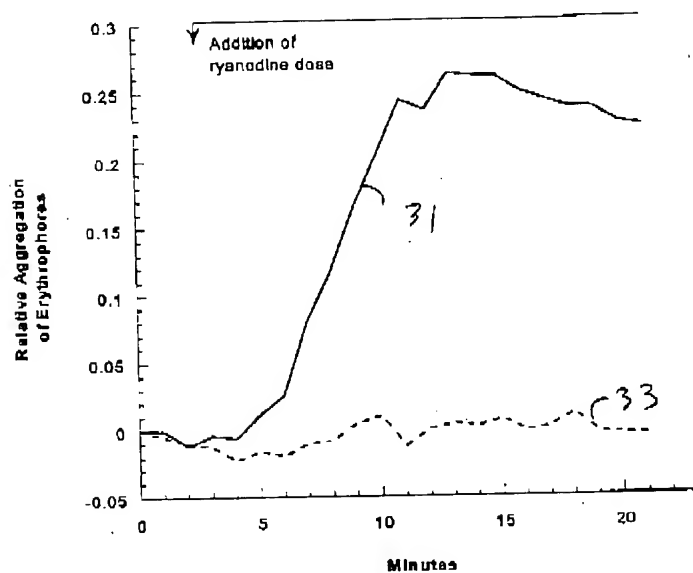


FIG. 24

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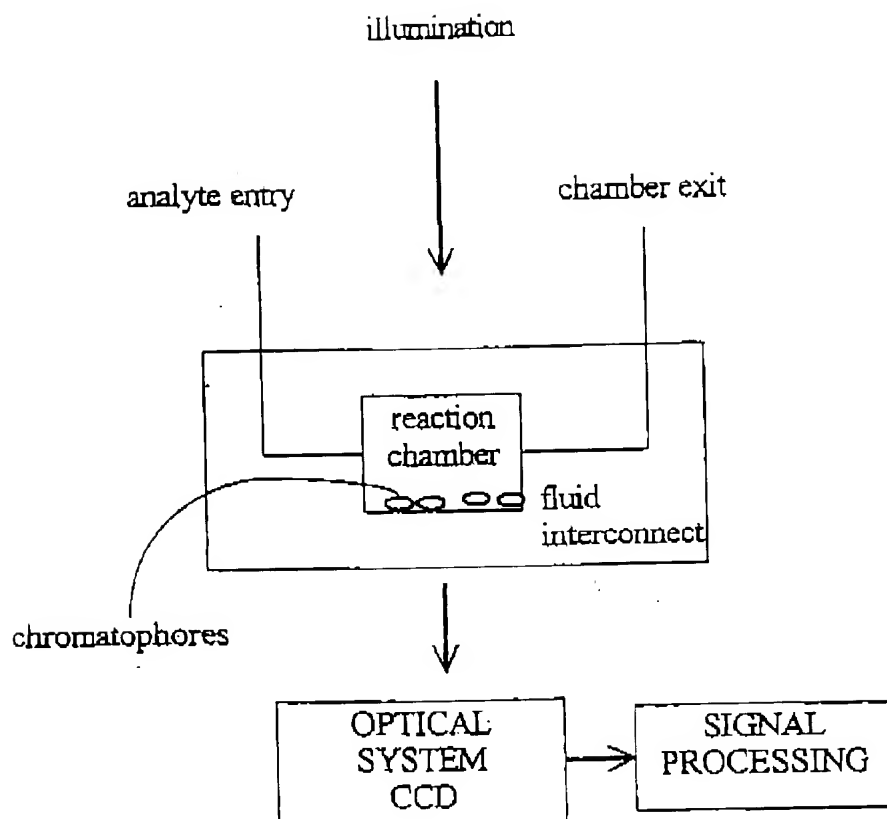
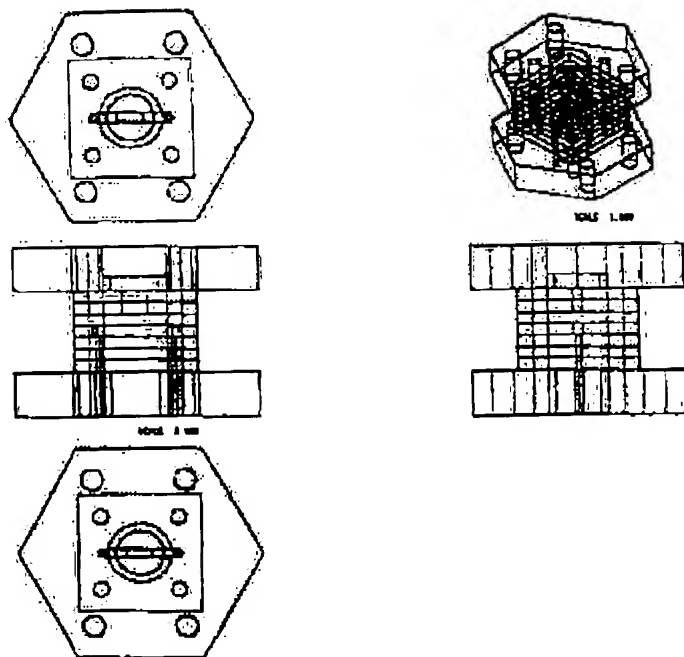


FIG. 25

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COMPOUNDS
Application No. 10/024,654
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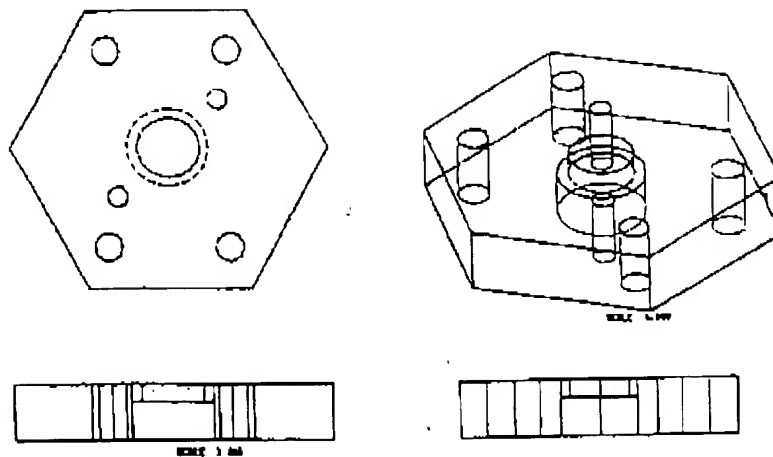


FIG. 27

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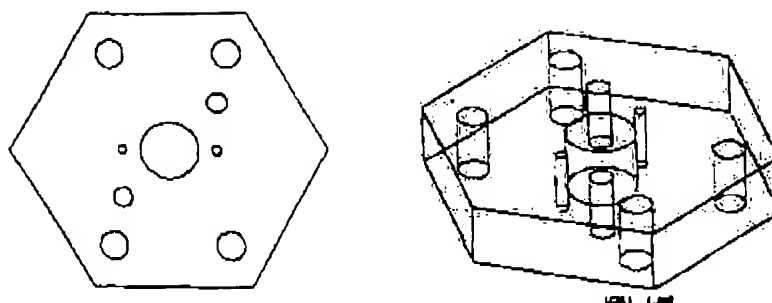


FIG. 28A

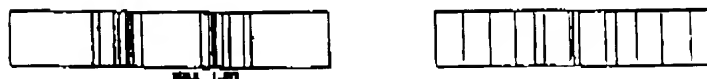


FIG. 28B



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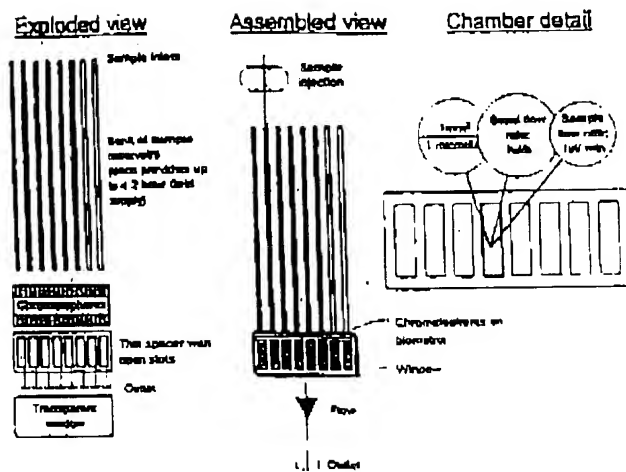


FIG. 30A

FIG. 30B

FIG. 30C

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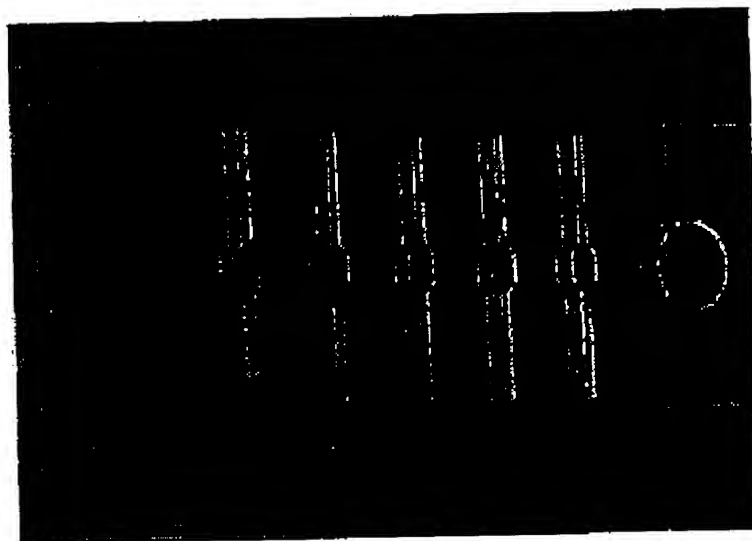


FIG. 31

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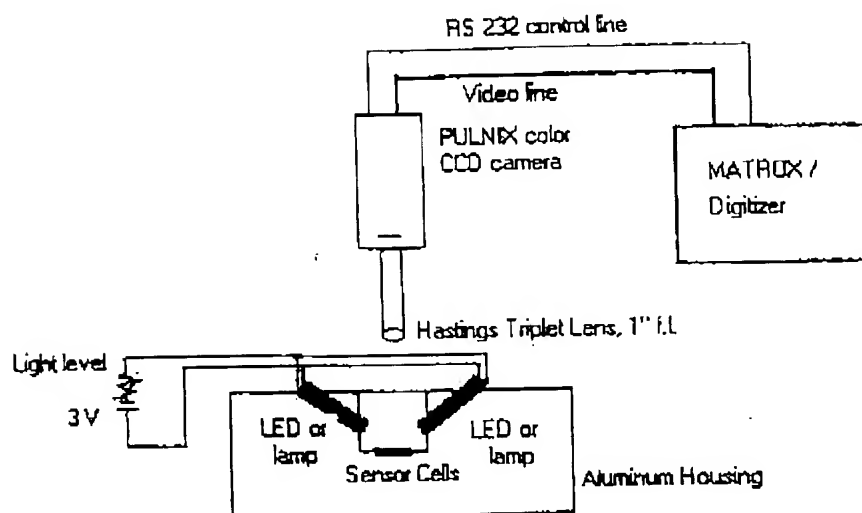


FIG. 32

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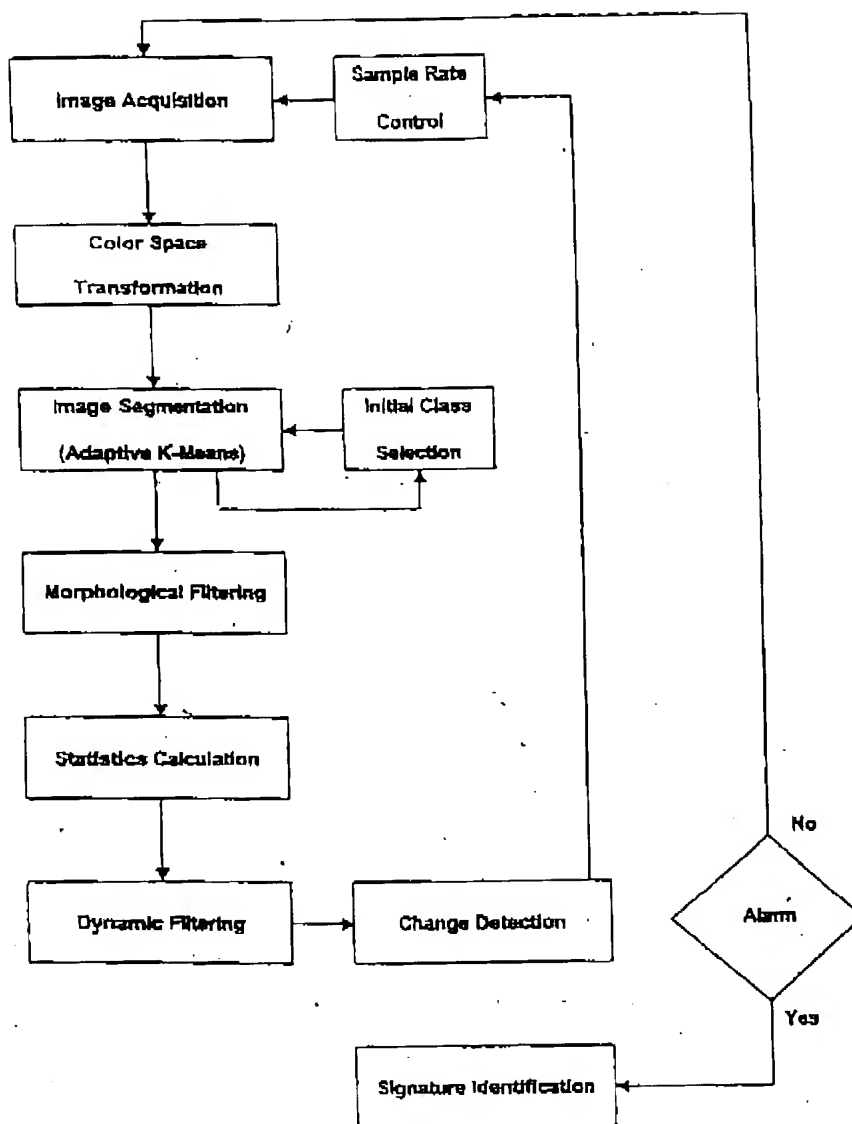


FIG. 33

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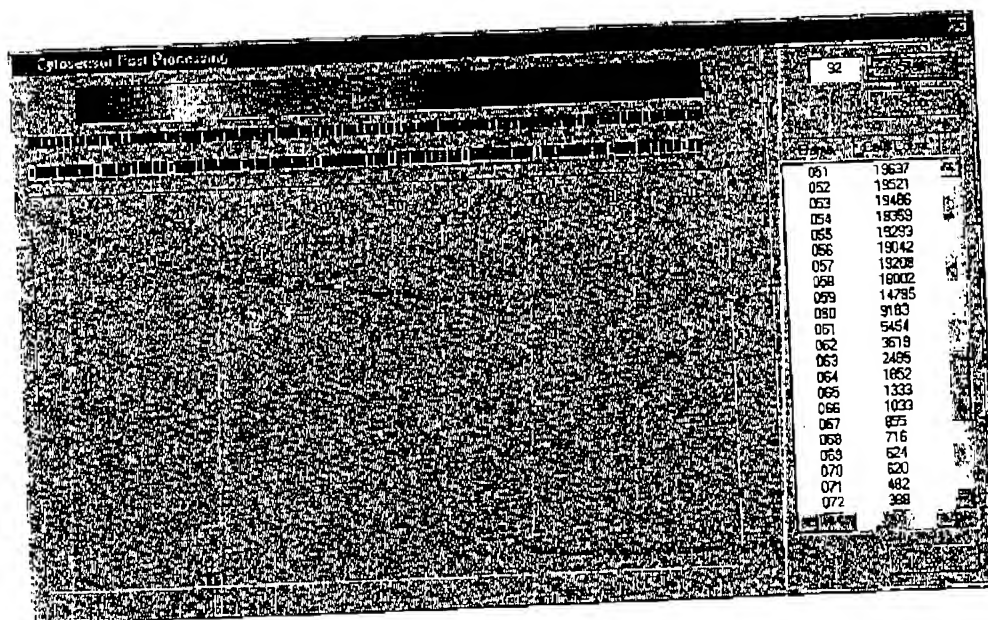


FIG. 34

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Na-ALGINATE
FERROMAGNETIC

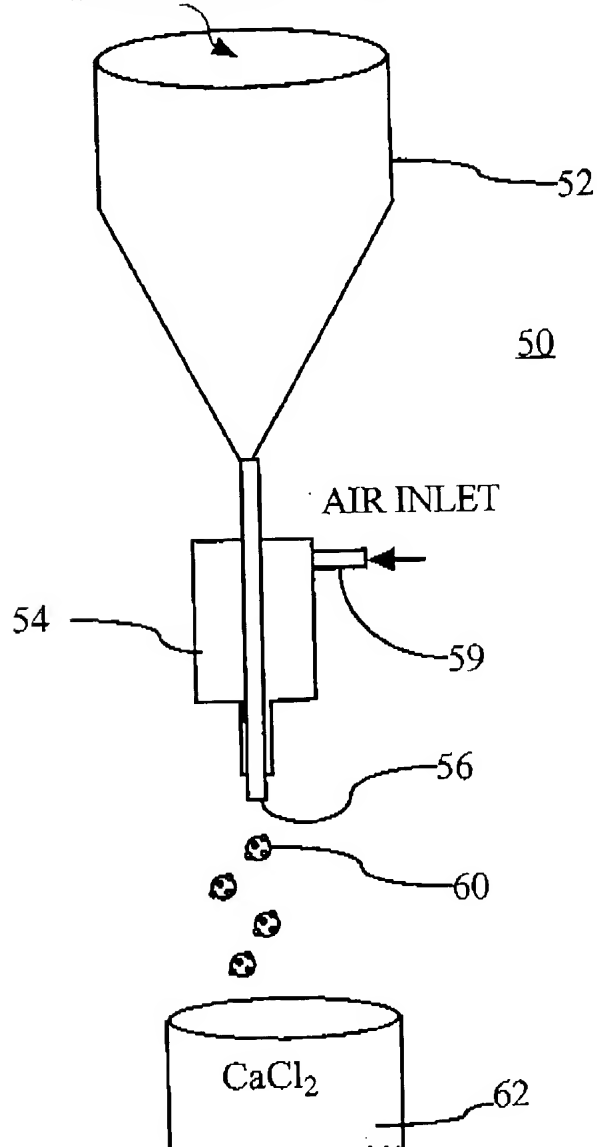


FIG. 35

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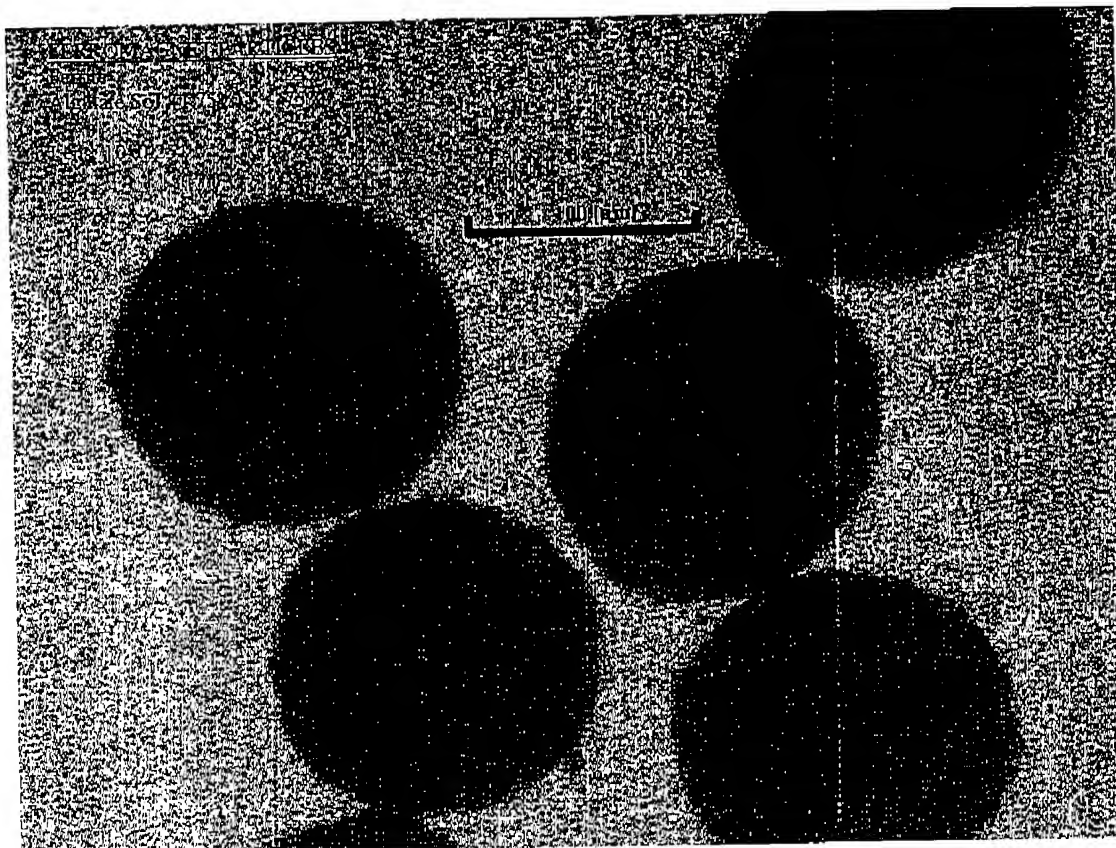
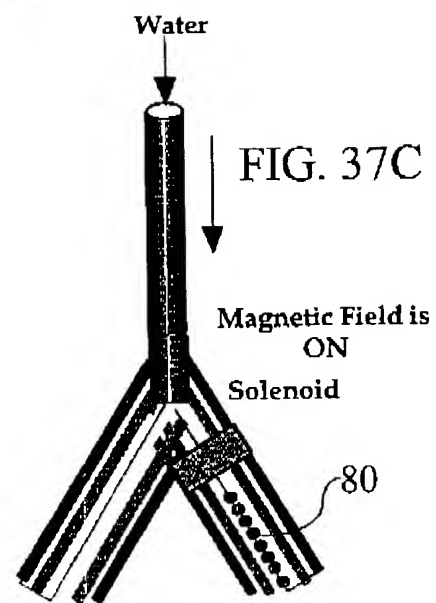
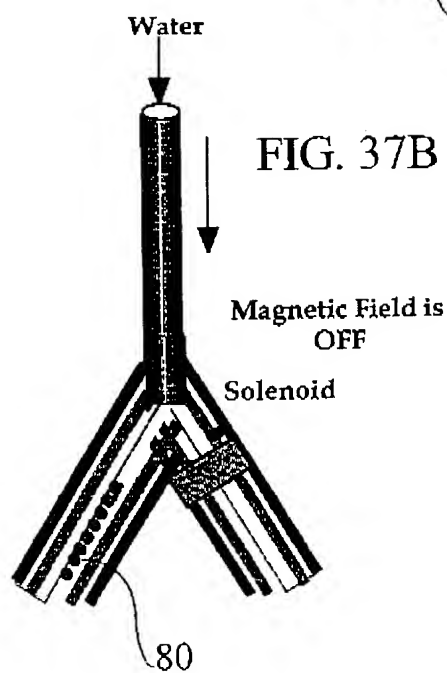
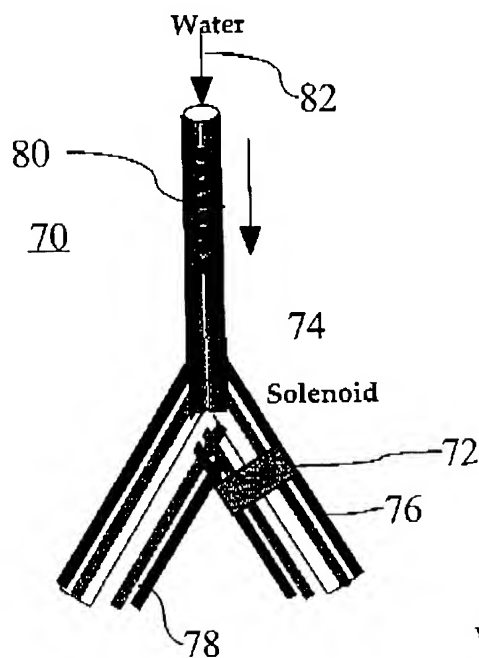


FIG. 36

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COMPOUNDS

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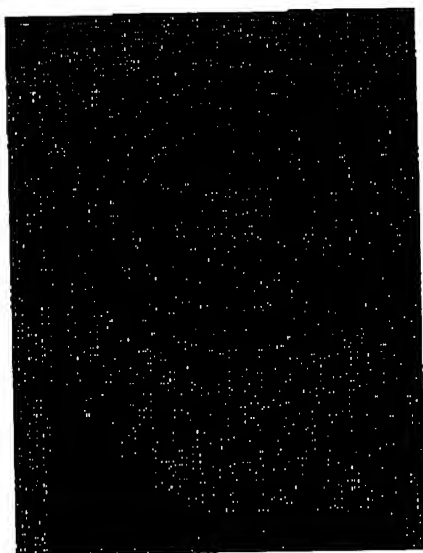


FIG. 38A

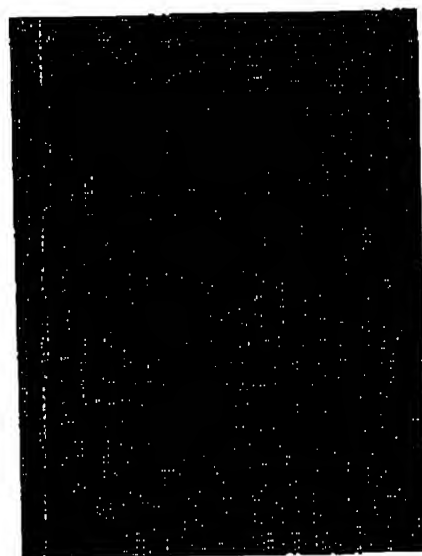


FIG. 38B

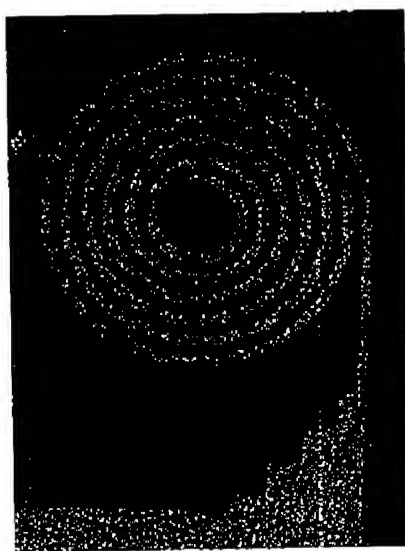


FIG. 39

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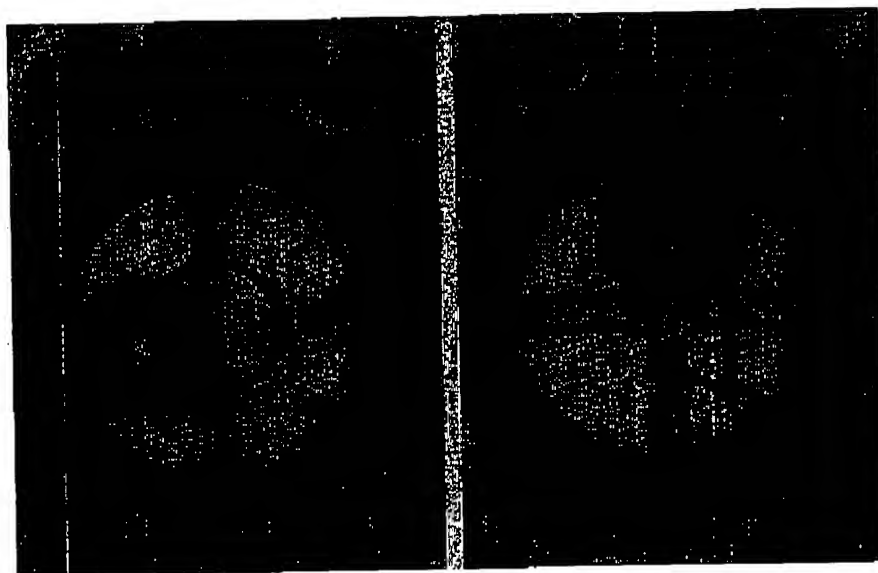


FIG. 40A

FIG. 40B

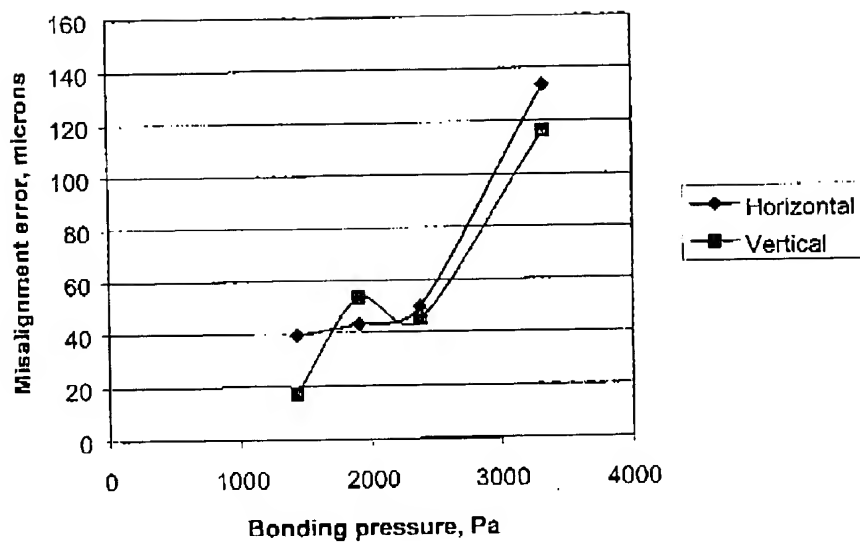


FIG. 41

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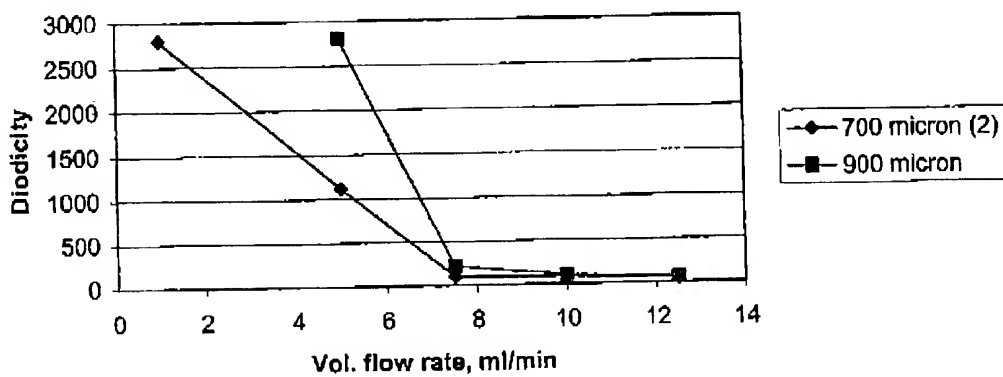


FIG. 42

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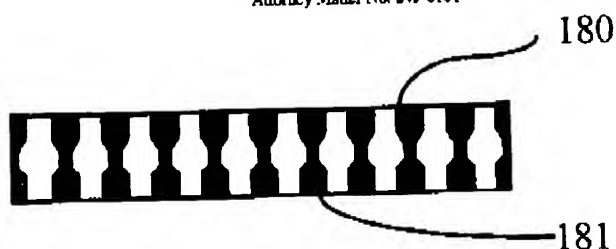


FIG. 43A

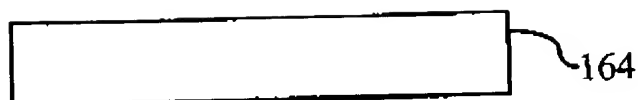


FIG. 43B

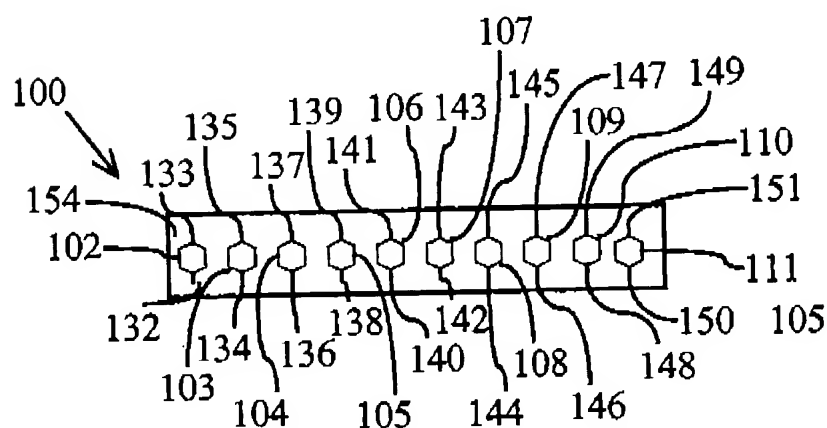


FIG. 43C

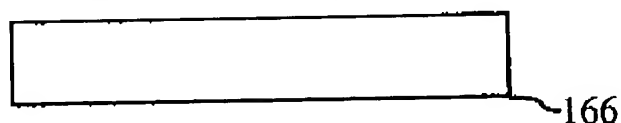


FIG. 43D

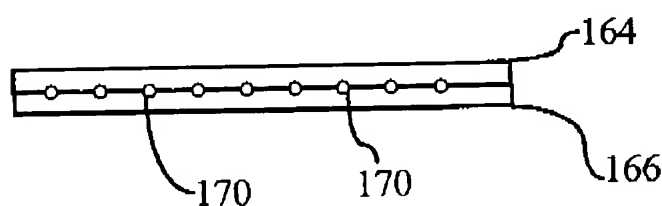


FIG. 43E